

# BIOLOGY

## Adaptations

- 4 Adaptations 1
- 5 Adaptations 2

## Cells

- 7 Air Borne Microbes
- 120 Microbes 2

## Communities

- 2 A Leaf is a Leaf
- 4 Adaptations 1
- 5 Adaptations 2
- 23 Camouflage
- 146 Pond Ecosystem

## Coordination

- 10 Are You Quick?
- 19 Body Language
- 55 Divers Response
- 56 Dogs and Bats
- 125 Morse Code
- 127 Optical Illusions
- 142 Plant Trophisms
- 154 Rebreathing
- 161 Senses - Hearing
- 183 Touch Sense

## Diversity

- 2 A Leaf is a Leaf

## Ecosystems

- 4 Adaptations 1
- 5 Adaptations 2
- 126 Nematodes
- 146 Pond Ecosystem

## Energy In Life

- 8 Alcohols
- 33 Chlorophyll Types
- 41 Colorimetry
- 42 Coloured Fire
- 62 Esters
- 70 Food Tests
- 87 Human Power
- 140 Photosynthesis 1
- 141 Photosynthesis 2
- 157 Respiration
- 158 Respiration 2
- 162 Soap

## Evolution

- 23 Camouflage

## Genetics

- 35 Chromosomes
- 39 Code of Life

## Invertebrates

- 96 Invertebrates 2
- 126 Nematodes

## Life in the Past

- 113 Making Rocks

## Living Things

- 7 Air Borne Microbes
- 109 Living Fire
- 120 Microbes 2
- 126 Nematodes

## Plants

- 2 A Leaf is a Leaf
- 33 Chlorophyll Types
- 128 Osmosis
- 129 Osmosis 2
- 140 Photosynthesis 1
- 141 Photosynthesis 2
- 142 Plant Trophisms
- 145 Pollen Tubes
- 159 Seed Needs
- 169 Stomates
- 199 Xylem Tubes

## Reproduction

- 35 Chromosomes
- 145 Pollen Tubes
- 39 Code of Life

## Some Controlled Experiments

- 7 Air Borne Microbes
- 8 Alcohols
- 14 Batteries 2
- 21 Buffers
- 27 Catalysis
- 42 Coloured Fire
- 43 Convection
- 49 Crystal Size
- 50 Current balance
- 63 Exo/Endothermic Rns. 1
- 78 Green Fire
- 79 Green House Effect
- 81 Halogen Ions
- 99 Iodate Clock
- 100 Ions
- 114 Mass of Air 1
- 115 Mass of Air 2
- 118 Metho and Water
- 122 Molecular Bonds
- 126 Nematodes
- 128 Osmosis
- 129 Osmosis 2
- 130 Oxidation & Reduction
- 134 Oxygen in Air
- 140 Photosynthesis 1
- 147 Precipitation Rns
- 159 Seed Needs
- 163 Solubilities
- 165 Sound Cannon
- 166 Spectrum Clock
- 174 Super Induction
- 175 Surface Tension Boats
- 180 Thermocouples
- 199 Xylem Tubes

## CHEMISTRY

### Matter

- 45 Crystal Forms
- 46 Crystal Forms 1
- 47 Crystal Garden
- 54 Distillation
- 58 Electrolysis
- 65 Expansion in Solids
- 67 Filtration
- 75 Gas Diffusion 1
- 76 Gas Diffusion 2
- 84 Heat/Temp 1
- 101 Iron Sulfide
- 105 Latent Heat
- 107 Liquid Air
- 108 Liquid Diffusion
- 111 Magic Filtration
- 118 Metho and Water
- 133 Oxygen
- 168 States of Iodine
- 178 Temp versus Heat

### Molarity

- 30 Chem Prac 2
- 61 Empirical Formula
- 103 Ksp
- 121 Molar Volume
- 123 Molecular Weight
- 192 Water of Crystallisation 1
- 193 Water of Crystallisation 2

### Organic Chem

- 8 Alcohols
- 20 Breathalyser
- 62 Esters
- 62 Esters
- 70 Food Tests
- 98 Invisible Ink
- 151 Rayon
- 162 Soap

### Periodic Table

- 53 Displacing Copper
- 61 Empirical Formula
- 81 Halogen Ions
- 121 Molar Volume
- 123 Molecular Weight
- 149 Quantum Leaps
- 163 Solubilities

### Reaction Rates

- 66 Exploding Bubbles
  - 99 Iodate Clock
  - 152 Reaction Rate vs. Conc.
  - 153 Reaction Rate vs. Temp
  - 166 Spectrum Clock
- ### Water
- 175 Surface Tension
  - 15 Bending Water
  - 185 Vacuum Boiling
  - 84 Heat & Temp
  - 178 Temp vs Heat

## THE EARTH & SKY

### Atmosphere

- 24 Carbon Dioxide
- 72 Fountain Expt
- 79 Green House Effect
- 89 Hydrogen Balloons
- 107 Liquid Air
- 114 Mass of Air 1
- 115 Mass of Air 2
- 133 Oxygen
- 134 Oxygen in Air
- 170 Suction Fiction
- 184 Vacuum Boiling

### The Earth

- 106 Latitude
- 117 Measuring the Earth
- 177 Tectonics
- 179 The Seasons

### Rocks and Minerals

- 46 Crystal Forms 1
- 49 Crystal Size
- 113 Making Rocks
- 190 Volcano

### The Sky

- 106 Latitude
- 119 Metho Rockets
- 171 Sunset Expt.
- 172 Sunspots
- 179 The Seasons

### Volcano & Quakes

- 49 Crystal Size
- 57 Earthquake Waves
- 177 Tectonics
- 190 Volcano

### Weather

- 112 Making Clouds
- 116 Measuring Clouds

# PHYSICS

## Density /Pressure

- 6 Aerodynamics
- 16 Bernoulli Effect
- 22 Buoyancy
- 26 Cartesian Diver
- 43 Convection
- 69 Floating Iron
- 72 Fountain Expt
- 86 Hot air Balloon
- 89 Hydrogen Balloons
- 93 Instant Hydrometer
- 112 Making Clouds
- 114 Mass of Air 1
- 115 Mass of Air 2
- 170 Suction Fiction
- 173 Super Balloons
- 177 Tectonics
- 184 Vacuum Boiling
- 194 Water Rocket

## Electricity

- 13 Batteries 1
- 14 Batteries 2
- 48 Crystal Set
- 51 Dicks Bug
- 51 Dicks Bug
- 59 Electrolytic Plating
- 74 Fuses
- 95 Internal Resistance
- 125 Morse Code
- 150 Radio Waves
- 160 Seeing Ions
- 180 Thermocouples
- 186 Van De Graaf 2
- 191 Water & Electrons
- 198 Wheatstone Bridge

## Electromagnetism

- 9 Alfoil Attractions
- 50 Current balance
- 60 Electron Beams
- 174 Super Induction

## Electrostatics

- 15 Bending Water
- 185 Van de Graaf 1
- 186 Van De Graaf 2

## Energy

- 74 Fuses
- 87 Human Power
- 178 Temp versus Heat

## Flight

- 6 Aerodynamics
  - 16 Bernoulli Effect
  - 86 Hot air Balloon
- ## Forces
- 6 Aerodynamics
  - 11 Attwoods Machine
  - 12 Ballistic Arrow
  - 17 Big Lift
  - 22 Buoyancy
  - 26 Cartesian Diver
  - 28 Centripetal Force
  - 71 Force Table
  - 73 Friction
  - 124 Moments
  - 136 Pendulum 1
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  - 176 Suspension Bridge
  - 181 Ticker Timer 1
  - 182 Ticker Timer 2
  - 187 Vector Tension
  - 188 Video Expt 1
  - 189 Video Expt 2
  - 194 Water Rocket
  - 200 "g" and an Air Track

## Heat

- 43 Convection
- 65 Expansion in Solids
- 83 Heat Absorbtion
- 84 Heat/Temp 1
- 85 Heat/Temp 2
- 91 Ice Cream
- 180 Thermocouples

## Light

- 1 A Hairs Width
  - 48 Crystal Set
  - 78 Green Fire
  - 83 Heat Absorbtion
  - 94 Internal Reflection
  - 127 Optical Illusions
  - 139 Photochemical Reaction
  - 144 Polarisation
  - 155 Red is Black
  - 156 Refractive Index
  - 195 Wave Tank
- ## Linear Motion
- 73 Friction
  - 148 Projectiles 1

- 181 Ticker Timer 1
- 182 Ticker Timer 2
- 188 Video Expt 1

## Machines

- 17 Big Lift
- 87 Human Power
- 124 Moments

## Momentum

- 40 Collisions 1
- 92 Impulse
- 189 Video Expt 2

## Nuclear Physics

- 52 Discharge Tubes
- 60 Electron Beams
- 97 Invisible beams
- 149 Quantum Leaps

## Projectiles

- 12 Ballistic Arrow
- 148 Projectiles 1

## Wave Prop. Light

- 1 A Hairs Width
- 104 Laser Diffraction
- 144 Polarisation
- 135 Particle Refraction
- 171 Sunset Expt.
- 94 Internal Reflection
- 195 Wave Tank
- 197 Waves In Strings 2

## Waves

- 36 Closed Resonance Pipes
- 37 Coat Hanger Bell
- 56 Dogs and Bats
- 57 Earthquake Waves
- 80 Guitar Science
- 82 Harmonic Bunsen
- 102 Kazoo
- 110 Long Springs
- 135 Particle Refraction
- 144 Polarisation
- 150 Radio Waves
- 156 Refractive Index
- 161 Senses - Hearing
- 165 Sound Cannon
- 167 Speed of Sound
- 171 Sunset Expt.
- 195 Wave Tank
- 196 Waves In Strings
- 197 Waves In Strings 2

# CHEMISTRY

## Acids and Bases

- 21 Buffers
- 25 Carbonates & Oxides
- 88 Hydrogen
- 131 Oxides & Acids
- 132 Oxides/pH
- 138 pH Rainbows
- 162 Soap
- 166 Spectrum Clock

## Air

- 16 Bernoulli Effect
- 24 Carbon Dioxide
- 114 Mass of Air 1
- 115 Mass of Air 2
- 134 Oxygen in Air

## Atoms & Molecules

- 15 Bending Water
- 42 Coloured Fire
- 60 Electron Beams
- 78 Green Fire
- 85 Heat/Temp 2
- 186 Van De Graaf 2
- 52 Discharge Tubes
- 97 Invisible beams
- 118 Metho and Water
- 149 Quantum Leaps
- 185 Van de Graaf 1
- 192 Water of Crystallisation 1
- 193 Water of Crystallisation 2

## Biological Chem

- 140 Photosynthesis 1
- 141 Photosynthesis 2
- 158 Respiration 2

## 41 Colorimetry

## Changes of State

- 68 Fire without Burning
- 91 Ice Cream
- 178 Temp versus Heat

## Chem Reactions

- 18 Blue Bottle
- 24 Carbon Dioxide
- 25 Carbonates & Oxides
- 27 Catalysis
- 29 Chem Prac 1
- 30 Chem Prac 2
- 31 Chemical Energy
- 38 Cobalt Equilibria

## Chem Reactions

- 44 Copper Complexes
- 53 Displacing Copper
- 63 Exo/Endothermic Rns. 1
- 64 Exo/Endothermic Rns. 2
- 77 Glycerol / Permanganate
- 88 Hydrogen
- 99 Iodate Clock
- 119 Metho Rockets
- 122 Molecular Bonds
- 130 Oxidation & Reduction
- 132 Oxides/pH
- 147 Precipitation Rns
- 152 Reaction Rate vs. Conc.
- 153 Reaction Rate vs. Temp
- 166 Spectrum Clock

## Chemical Energy

- 27 Catalysis
- 31 Chemical Energy
- 63 Exo/Endothermic Rns. 1
- 64 Exo/Endothermic Rns. 2
- 66 Exploding Bubbles
- 68 Fire without Burning
- 77 Glycerol / Permanganate
- 105 Latent Heat
- 119 Metho Rockets
- 139 Photochemical Reaction

## Elements

- 32 Chlorine
- 58 Electrolysis
- 81 Halogen Ions
- 88 Hydrogen
- 89 Hydrogen Balloons
- 122 Molecular Bonds
- 133 Oxygen
- 134 Oxygen in Air
- 149 Quantum Leaps
- 168 States of Iodine
- 101 Iron Sulfide

## Equilibrium

- 18 Blue Bottle
- 38 Cobalt Equilibria
- 99 Iodate Clock
- 152 Reaction Rate vs. Conc.
- 153 Reaction Rate vs. Temp
- 163 Solubilities
- 21 Buffers

## Gas Laws

- 112 Making Clouds
- 121 Molar Volume
- 107 Liquid Air

## How Atoms Join

- 90 Hydrophylic/ phobic
- 100 Ions
- 122 Molecular Bonds
- 164 Solvents
- 175 Surface Tension Boats
- 184 Vacuum Boiling

## Ions

- 13 Batteries 1
- 14 Batteries 2
- 44 Copper Complexes
- 53 Displacing Copper
- 58 Electrolysis
- 59 Electrolytic Plating
- 81 Halogen Ions
- 100 Ions
- 111 Magic Filtration
- 130 Oxidation & Reduction
- 143 Polar Liquids
- 160 Seeing Ions
- 164 Solvents

## Kinetic Theory

- 75 Gas Diffusion 1
- 76 Gas Diffusion 2
- 99 Iodate Clock
- 108 Liquid Diffusion
- 152 Reaction Rate vs. Conc.
- 153 Reaction Rate vs. Temp
- 166 Spectrum Clock

## Making Chemicals

- 25 Carbonates & Oxides
- 29 Chem Prac 1
- 61 Empirical Formula
- 98 Invisible Ink
- 101 Iron Sulfide
- 132 Oxides/pH
- 192 Water of Crystallisation 1
- 193 Water of Crystallisation 2

## Matter

- 3 Absorbtion
- 24 Carbon Dioxide
- 32 Chlorine
- 34 Chromatography
- 42 Coloured Fire

# PHYSICS

## Energy

- 74 Fuses
- 87 Human Power
- 178 Temp versus Heat
- 250 Elastic Energy
- 246 Power
- 290 Elastic Collisions

## Heat

- 43 Convection
- 65 Expansion in Solids
- 91 Ice Cream
- 180 Thermocouples
- 83 Heat Absorption
- 84 Heat/Temp 1
- 85 Heat/Temp 2

## Forces

- 258 Magnetism
- 284 Invisible Force
- 257 Force Fields
- 296 Falling Target
- 200 "g" and an Air Track
- 194 Water Rocket
- 188 Video Expt 1
- 136 Pendulum 1
- 17 Big Lift
- 28 Centripetal Force
- 73 Friction
- 181 Ticker Timer 1
- 182 Ticker Timer 2
- 282 Electromagnets 1
- 283 Electromagnets 2
- 279 Inclined Plane
- 11 Atwoods Machine
- 71 Force Table
- 12 Ballistic Arrow
- 137 Pendulum 2
- 176 Suspension Bridge
- 187 Vector Tension
- 259 Tension and Acceleration
- 216 Residual Error

## Motion

- 181 Ticker Timer 1
- 182 Ticker Timer 2
- 73 Friction
- 148 Projectiles
- 188 Video Expt 1
- 296 Falling Target
- 12 Ballistic Arrow

## Momentum

- 40 Collisions 1
- 92 Impulse
- 189 Video Expt 2
- 290 Elastic Collisions

## Machines

- 17 Big Lift
- 124 Moments
- 279 Inclined Plane
- 281 Wheel barrow
- 280 Pulleys
- 280 Pulleys
- 278 Gears and Torque
- 87 Human Power
- 246 Power

## Density /Pressure

- 72 Fountain Expt
- 22 Buoyancy
- 26 Cartesian Diver
- 69 Floating Iron
- 93 Instant Hydrometer
- 177 Tectonics
- 86 Hot air Balloon
- 114 Mass of Air 1
- 115 Mass of Air 2
- 89 Hydrogen Balloons
- 194 Water Rocket
- 240 Antigravity
- 170 Suction Fiction
- 173 Super Balloons
- 43 Convection
- 112 Making Clouds
- 184 Vacuum Boiling
- 260 Pressure Ignition

- 6 Aerodynamics
- 16 Bernoulli Effect
- 255 Streamlining

## Flight

- 6 Aerodynamics
- 16 Bernoulli Effect
- 86 Hot air Balloon
- 207 Variables & Constants
- 254 Paper Planes
- 255 Streamlining

## Electrostatics

- 248 Electron Attractions
- 15 Bending Water
- 185 Van de Graaf 1
- 186 Van De Graaf 2

- 247 Electric Wind

## Electricity

- 186 Van De Graaf 2
- 191 Water & Electrons
- 125 Morse Code
- 241 Fire Alarm
- 243 Series and Parallel
- 74 Fuses
- 13 Batteries 1
- 244 Shock Stack
- 14 Batteries 2
- 59 Electrolytic Plating
- 95 Internal Resistance
- 160 Seeing Ions
- 180 Thermocouples
- 242 Fuel Cell
- 198 Wheatstone Bridge
- 150 Radio Waves
- 48 Crystal Set
- 51 The Bug
- 245 Physics Prac
- 251 Power

## Electromagnetism

- 9 Alfoil Attractions
- 50 Current balance
- 60 Electron Beams
- 174 Super Induction
- 282 Electromagnets 1
- 283 Electromagnets 2
- 246 Power

## Light

- 276 Flat Mirror
- 273 Concave Mirror
- 275 Convex Mirror
- 274 Convex Lens
- 272 Concave Lens
- 156 Refractive Index
- 155 Red is Black
- 94 Internal Reflection
- 127 Optical Illusions
- 237 Blind Spot
- 144 Polarisation
- 238 Depth Perception
- 139 Photochemical Reaction
- 83 Heat Absorption
- 48 Crystal Set
- 1 A Hairs Width

## CHEMISTRY

### How Atoms Join

- 90 Hydrophilic/ phobic
- 100 Ions
- 122 Molecular Bonds
- 175 Surface Tension Boats
- 184 Vacuum Boiling
- 289 Valency
- 164 Solvents

### Periodic Table

- 149 Quantum Leaps
- 61 Empirical Formula
- 123 Molecular Weight
- 53 Displacing Copper
- 163 Solubilities
- 81 Halogen Ions
- 121 Molar Volume

### Kinetic Theory

- 287 Kinetic Corn
- 241 Fire Alarm
- 75 Gas Diffusion 1
- 76 Gas Diffusion 2
- 108 Liquid Diffusion
- 65 Expansion in Solids
- 178 Temp versus Heat
- 91 Ice Cream
- 68 Fire without Burning
- 270 Dissolving
- 271 Hot Cooling
- 99 Iodate Clock
- 166 Spectrum Clock
- 152 Reaction Rate vs. Conc.
- 153 Reaction Rate vs. Temp

### Gas Laws

- 107 Liquid Air
- 112 Making Clouds
- 260 Pressure Ignition
- 121 Molar Volume

### Chemical Energy

- 63 Exo/Endothermic Rns. 1
- 64 Exo/Endothermic Rns. 2
- 77 Glycerol / Permanganate
- 119 Metho Rockets
- 204 Results
- 66 Exploding Bubbles
- 68 Fire without Burning
- 105 Latent Heat
- 31 Chemical Energy
- 27 Catalysis
- 139 Photochemical Reaction

### Equilibrium

- 18 Blue Bottle
- 163 Solubilities
- 253 Equilibrium & Heat
- 228 Reaction Rate
- 252 Competing Equilibria
- 38 Cobalt Equilibria
- 99 Iodate Clock
- 152 Reaction Rate vs. Conc.
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### Reaction Rates

- 66 Exploding Bubbles
- 99 Iodate Clock
- 152 Reaction Rate vs. Conc.
- 153 Reaction Rate vs. Temp
- 166 Spectrum Clock

### Molarity

### Atomic Mass

- 61 Empirical Formula
- 121 Molar Volume
- 123 Molecular Weight
- 192 Water of Crystallisation 1
- 289 Valency
- 193 Water of Crystallisation 2
- 223 Titration 2
- 30 Chem Prac 2
- 103 Ksp

### Organic Chem

- 8 Alcohols
- 20 Breathalyser
- 70 Food Tests
- 162 Soap
- 300 Softenning Water
- 62 Esters
- 231 Cosmetics 1
- 62 Esters
- 232 Cosmetics 2
- 233 Cosmetics 3
- 292 Casein
- 293 Nylon
- 151 Rayon

### Biological Chem

- 140 Photosynthesis 1
- 141 Photosynthesis 2
- 158 Respiration 2
- 41 Colorimetry
- 264 Enzymes 1
- 265 Enzymes 2

### Oxidation (see Ions)

## THE EARTH & SKY

### Atmosphere

- 114 Mass of Air 1
- 115 Mass of Air 2
- 72 Fountain Expt
- 170 Suction Fiction
- 184 Vacuum Boiling
- 133 Oxygen
- 134 Oxygen in Air
- 24 Carbon Dioxide
- 79 Green House Effect
- 89 Hydrogen Balloons
- 107 Liquid Air
- 112 Making Clouds
- 116 Measuring Clouds
- 224 Tin Canometer
- 209 Graphs 2
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- 171 Sunset Expt.

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- 117 Measuring the Earth
- 179 The Seasons
- 106 Latitude
- 172 Sunspots
- 177 Tectonics
- 119 Metho Rockets
- 256 Angular Momentum

### Rocks and Minerals

- 46 Crystal Forms 1
- 49 Crystal Size
- 113 Making Rocks
- 298 Weathering
- 297 Rock Types

### Volcano & Quakes

- 49 Crystal Size
- 57 Earthquake Waves
- 177 Tectonics
- 190 Volcano

### Water

- 175 Surface Tension
- 15 Bending Water
- 84 Heat & Temp
- 178 Temp vs Heat
- 270 Dissolving
- 185 Vacuum Boiling
- 300 Softenning Water
- 206 Controls
- 227 Quantitative Assay

# SCIENTIFIC METHOD

## Scientific Method

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 202 Aims  
 203 Procedure  
 204 Results  
 205 Conclusion  
 206 Controls  
 207 Variables & Constants  
 208 Graphs 1  
 209 Graphs 2  
 210 Hypothesis  
 211 Parameters  
 212 Replicates  
 213 Sampling  
 214 Blind Trial  
 215 Double Blind Trial  
 216 Residual Error  
 217 Statistical Analysis  
 294 Green Plants?  
 234 Laundry Detergents  
 235 Window Cleaners  
 299 Mystery Solution

## Some Controlled Experiments

7 Air Borne Microbes  
 8 Alcohols  
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 165 Sound Cannon  
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 206 Controls  
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 228 Reaction Rate  
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 235 Window Cleaners  
 249 Corrosion  
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 264 Enzymes 1  
 265 Enzymes 2  
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267 Rubber Bones  
 268 Electrolytes  
 269 Electrophoresis  
 282 Electromagnets 1  
 283 Electromagnets 2  
 284 Invisible Force  
 294 Green Plants?  
 300 Softenning Water

## PHYSICS

### Waves

- 80 Guitar Science
- 102 Kazoo
- 110 Long Springs
- 165 Sound Cannon
- 167 Speed of Sound
- 56 Dogs and Bats
- 161 Senses - Hearing
- 135 Particle Refraction
- 156 Refractive Index
- 195 Wave Tank
- 196 Waves in Strings
- 37 Coat Hanger Bell
- 57 Earthquake Waves
- 36 Closed Resonance Pipes
- 82 Harmonic Bunsen
- 144 Polarisation
- 150 Radio Waves
- 171 Sunset Expt.
- 197 Waves in Strings 2

### Wave Prop. Light

- 195 Wave Tank
- 197 Waves In Strings 2
- 94 Internal Reflection
- 135 Particle Refraction
- 104 Laser Diffraction
- 144 Polarisation
- 171 Sunset Expt.

### 1 A Hairs Width

### Nuclear Physics

- 52 Discharge Tubes
- 60 Electron Beams
- 97 Invisible beams
- 149 Quantum Leaps
- 291 Chain reaction

### Consumer Science

- 230 Consumer Science
- 203 Procedure
- 235 Window Cleaners
- 234 Laundry Detergents
- 231 Cosmetics 1
- 232 Cosmetics 2
- 233 Cosmetics 3
- 266 Pasteurisation

## BIOLOGY

### Living Things

- 109 Living Fire
- 120 Microbes 2
- 126 Nematodes
- 7 Air Borne Microbes
- 277 Arthropod Art
- 212 Replicates

### 96 Invertebrates 2

### Plants

- 2 A Leaf is a Leaf
- 33 Chlorophyll Types
- 128 Osmosis
- 129 Osmosis 2
- 140 Photosynthesis 1
- 141 Photosynthesis 2
- 142 Plant Trophisms
- 145 Pollen Tubes
- 159 Seed Needs
- 169 Stomates
- 199 Xylem Tubes
- 294 Green Plants?
- 295 Leaf Section
- 217 Statistical Analysis
- 221 Plant Indicators

### Inside Life

- 267 Rubber Bones
- 41 Colorimetry
- 140 Photosynthesis 1
- 141 Photosynthesis 2
- 157 Respiration
- 158 Respiration 2
- 8 Alcohols
- 266 Pasteurisation
- 162 Soap
- 263 Antisepsis
- 7 Air Borne Microbes

### 33 Chlorophyll Types

- 70 Food Tests
- 87 Human Power
- 264 Enzymes 1
- 265 Enzymes 2
- 42 Coloured Fire

### Genetics

- 35 Chromosomes
- 145 Pollen Tubes
- 39 Code of Life
- 261 Genetic Differences
- 262 Zeibops
- 236 Forensic Science

### Coordination

- 10 Are You Quick?
- 19 Body Language
- 55 Divers Response
- 56 Dogs and Bats
- 125 Morse Code
- 127 Optical Illusions
- 142 Plant Trophisms
- 154 Rebreathing
- 161 Senses - Hearing
- 183 Touch Sense
- 237 Blind Spot
- 238 Depth Perception
- 239 Learning
- 214 Blind Trial
- 215 Double Blind Trial

### Communities

- 2 A Leaf is a Leaf
- 4 Adaptations 1
- 5 Adaptations 2
- 23 Camouflage
- 146 Pond Ecosystem
- 126 Nematodes

### Evolution

- 23 Camouflage
- 254 Paper Planes
- 2 A Leaf is a Leaf
- 4 Adaptations 1
- 5 Adaptations 2

### Scientific Method

- 201 A Scientists Eyes
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- 209 Graphs 2
- 210 Hypothesis
- 211 Parameters
- 212 Replicates
- 213 Sampling
- 214 Blind Trial
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- 216 Residual Error
- 217 Statistical Analysis
- 294 Green Plants?
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| 202 Aims                       | 258 Magnetism                        | 230 Consumer Science           |
| 205 Conclusion                 | <b>4.7.1 Kinetic Theory</b>          | 61 Empirical Formula           |
| 206 Controls                   | 75 Gas Diffusion 1                   | 98 Invisible Ink               |
| 208 Graphs 1                   | 76 Gas Diffusion 2                   | 101 Iron Sulfide               |
| 234 Laundry Detergents         | 84 Heat/Temp 1                       | <b>4.8.1 Cells</b>             |
| 203 Procedure                  | 108 Liquid Diffusion                 | 120 Microbes                   |
| 204 Results                    | 180 Thermocouples                    | 140 Photosynthesis 1           |
| 207 Variables & Constants      | <b>4.7.2 Matter/Density/Pressure</b> |                                |
| <b>4.3 Models- Atomic</b>      | 6 Aerodynamics                       | <b>4.8.2 Living Things</b>     |
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| 270 Dissolving                 | 26 Cartesian Diver                   | 277 Arthropod Art              |
| 118 Metho and Water            | 45 Crystal Forms                     | 126 Nematodes                  |
| <b>4.6.1 Energy</b>            | 69 Floating Iron                     | 109 Living Fire                |
| 290 Elastic Collisions         | 72 Fountain Expt                     | <b>4.8.3 Plant Tissues</b>     |
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| <b>4.6.2 Forces</b>            | 89 Hydrogen Balloons                 | 129 Osmosis 2                  |
| 257 Force Fields               | 93 Instant Hydrometer                | 159 Seed Needs                 |
| 258 Magnetism                  | 255 Streamlining                     | 169 Stomates                   |
| <b>4.6.3 Electrical Energy</b> | 170 Suction Fiction                  | 199 Xylem Tubes                |
| 74 Fuses                       | 173 Super Balloons                   | <b>4.8.4 Diversity</b>         |
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| <b>4.6.4 Electrical Energy</b> | 194 Water Rocket                     | 157 Respiration                |
| 294 Green Plants?              | <b>4.7.3 Changes of State</b>        | <b>4.8.5 Body Systems</b>      |
| 80 Guitar Science              | 268 Electrolytes                     | 42 Coloured Fire               |
| 82 Harmonic Bunsen             | 68 Fire without Burning              | 264 Enzymes 1                  |
| 102 Kazoo                      | 271 Hot Cooling                      | 70 Food Tests                  |
| 110 Long Springs               | 91 Ice Cream                         | 87 Human Power                 |
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